

**Amendments to the Claims:**

1- 21. (canceled)

22. (new) An electrolytic mixture for molten carbonate fuel cells comprising a carrier solution and a carbonates mixture, wherein said carrier solution is a mixture of one or more organic solvents and water.

23. (new) The electrolytic mixture according to claim 22 wherein said carbonates are mixed in such stoichiometric ratios as to obtain the  $\text{Li}_2\text{CO}_3/\text{K}_2\text{CO}_3$  eutectic mixture in a ratio of 62/38.

24. (new) The electrolytic mixture according to claim 22 wherein  $\text{Li}_2\text{CO}_3$  and  $\text{K}_2\text{CO}_3$  are mixed in a stoichiometric ratio of between 3:1 and 1:1.

25. (new) The electrolytic mixture according to claim 24, wherein said ratio is 1.7:1.

26. (new) The electrolytic mixture according to claim 22 wherein said carbonates mixture consists essentially of  $\text{Li}_2\text{CO}_3$  and  $\text{LiKCO}_3$ .

27. (new) The electrolytic mixture according to claim 26 wherein  $\text{LiKCO}_3$  and  $\text{Li}_2\text{CO}_3$  are present in a stoichiometric ratio of 3:1.

28. (new) The electrolytic mixture according claim 22 wherein said one or more organic solvents are selected from the group consisting of vaseline, wax and glycerine.

29. (new) The electrolytic mixture according claim 22 wherein said carrier solution is a mixture of glycerine and water, with a glycerine content between 5% and 80% by weight.

30. (new) The electrolytic mixture according to claim 29, wherein said carrier solution is a glycerine and water mixture with a glycerine content between 15% and 50% by weight.

31. (new) The electrolytic mixture according to claim 22 wherein said carbonates are present in quantities of between 50% and 90% by weight.

32. (new) The electrolytic mixture according to claim 31 wherein said carbonates are present in quantities of between 70% and 80% by weight.

33. (new) The electrolytic mixture according to claim 22 in the form of a spreadable paste.

34. (new) A process for producing the electrolytic mixture according to claim 22, said process comprising steps of:

- a) mixing one or more organic solvents and water;
- b) separately mixing the carbonates; and then
- c) mixing the carrier solution obtained in step a) with the carbonates mixture obtained in step b).

35. (new) The process according to claim 34 wherein, in step a), said one or more solvents are selected from the group consisting of vaseline, wax and glycerine, and comprise between 5% and 80% by weight of the mixture.

36. (new) The process according to claim 35, wherein said solvent is glycerine.

37. (new) The process according to claim 35, wherein said solvents comprises between 15% and 50% by weight of the mixture.

38. (new) The process according to claim 34 wherein, in step b), the carbonates used are preferably  $\text{Li}_2\text{CO}_3$  and  $\text{K}_2\text{CO}_3$  mixed in a stoichiometric ratio between 3:1 and 1:1.

39. (new) The process according to claim 38, wherein said stoichiometric ratio is 1.7:1.

40. (new) The process according to claim 34 wherein, in step b), the carbonates are mixed in a ball mill for between 10 and 48 hours.

41. (new) The process according to claim 40, wherein said period of time is between 20 and 28 hours.

42. (new) The process according to claim 34 wherein, in step c), the carbonates are mixed with the carrier solution in quantities of between 50% and 90%

43. (new) The process according to claim 42, wherein said carrier solution quantities are between 70% and 80%.

44. (new) The process according to claim 34 wherein step c) involves the gradual addition of the carbonates mixture into the carrier solution with constant mixing.

45. (new) A current collector comprising a layer of electrolytic mixture, according to claim 22, spread over at least one of its surfaces.

46. (new) A molten carbonate fuel cell comprising a current collector according to claim 45.

47. (new) A collector preparation method comprising steps of:

a) spreading an electrolytic mixture over at least one surface of a current

collector; and;

b) placing said collector on the electrode using a surface not covered by said electrolytic mixture.

48. (new) The method according to claim 47 wherein step a) takes place at room temperature.